

giving to each of the defined operational arcs a predetermined weighting coefficient;

determining, when passing from a first state to a second state from among the plurality of states, a single transition path based on the weighting coefficient of attainable transition paths; and

controlling, based on the determined transition path, said robot so as to move from the first state to the second state,

wherein said operational arc includes a self-operational arc showing the operation of said robot when returning from the second state to the first state.

REMARKS

This submission is in full response and timely to the aforementioned final Office Action. By this amendment, claims 12 and 13 were canceled, and claims 7-11 and 15, 17, and 18 were amended further to define the invention. Support for the amendments to claims 7-11 and 15, 17, and 18 can be found in various locations throughout the specification and drawings. For example support for claims 7-12 and 15-18 can be found in the specification at page. No new matter has been added. Claims 7-11 and 14-18 are pending.

Rejection Under 35 U.S.C. §251

Claims 7-11 and 14-18 were rejected under 35 U.S.C. §251 as an alleged improper recapture. As noted above, Applicants have amended claims 7-11 and 15, 17, and 18 to include a "self operational arc" feature. Applicants submit that the amendments to the claims address and remedy the recapture issue raised by in the Office Action. Thus, Applicants respectfully request that the rejection of claims 7-11 and 15, 17, and 18 under 35 U.S.C. §251 be withdrawn, and these reissue claims be allowed.

Claim 14 depends from claim 11 and claim 16 depends from claim 15. By virtue of this dependency, Applicants submit that the reissue claims 14 and 16 are allowable for at least the same reasons given above. Thus, Applicants respectfully request that

the rejection of claims 14 and 16 under 35 U.S.C. §251 be withdrawn, and these reissue claims be allowed.

Conclusion

Based on at least the foregoing amendments and remarks, Applicants submit that claims 7-11 and 14-18 are allowable, and this application is in condition for allowance. Accordingly, Applicants request favorable reexamination and reconsideration of the application. In the event the Examiner has any comments or suggestions for placing the application in even better form, Applicants request that the Examiner contact the undersigned attorney at the number listed below.

Dated: April 28, 2003

Respectfully submitted,

By: _____

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In the event additional fees are necessary in connection with the filing of this paper, or if a petition for extension of time is required for timely acceptance of same, the Commissioner is hereby authorized to charge Deposit Account No. 180013 for any such fees; and applicants hereby petition for any needed extension of time.